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PTO/SB/05 (08-00)

Approved for use through 10/31/2002 OMB 0651-0032
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)

2. Applicant claims small entity status.
 See 37 CFR 1.27.

3. Specification [Total Pages 475]
(preferred arrangement set forth below)

- Descriptive title of the Invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (*if filed*)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4. Drawing(s) (35 U.S.C. 113) [Total Sheets 2]

5. Unexecuted Declaration [Total Pages 2]

- a. Newly executed (original or copy)
 b. Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)

i. **DELETION OF INVENTOR(S)**

Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

6. Application Data Sheet. See 37 CFR 1.76.

Attorney Docket No.	PT086PI
First Inventor	Barash et al.
Title	Signal Transduction Pathway Component Polynucleotides, Polypeptides, Antibodies, and Methods Based Thereon
Express Mail Label No.	

Assistant Commissioner for Patents
 Box Patent Application
 Washington, DC 20231

7. CD-ROM or CD-R in duplicate, large table or Computer Program (*Appendix*)
 8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on.
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper (96 pages)
 - c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet and document(s))
 10. 37 CFR 3.73(b) Statement Power of Attorney
 11. English Translation Document (*if applicable*)
 12. Information Disclosure Statement/ Form PTO/SB/08
 Copies of Citations
 13. Preliminary Amendment
 14. Return Receipt Postcard (MPEP 503)
(should be specifically itemized)
 15. Certified copy of Priority Document(s)
(if foreign priority is claimed)
 16. Other:

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-Part (CIP) of prior application No: 60/234,997; filed: September 25, 2000.

Prior application information: Examiner _____ Group/Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only. The entire disclosure of the prior application from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18. CORRESPONDENCE ADDRESS

<input checked="" type="checkbox"/> Customer Number or Bar Code Label	22195	or <input type="checkbox"/> Correspondence address below
NAME		
ADDRESS		
CITY	STATE	ZIP CODE
COUNTRY	TELEPHONE	FAX
NAME (Print/Type)	Registration No (Attorney/Agent) 40,302	
SIGNATURE	Date <u>September 20, 2001</u>	

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1054 U.S. PTO
09/20/01

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

Total amount of payment

764.00*Complete if Known*

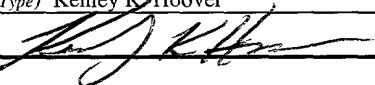
Application Number	Unassigned
Filing Date	Herewith (September 20, 2001)
First Named Inventor	Barash et al.
Examiner Name	Unassigned
Group Art Unit	Unassigned

Attorney Docket Number **PT086P1**

METHOD OF PAYMENT				FEES CALCULATION (continued)																																																																																																																																																																							
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to. Deposit Account Number 08-3425 Deposit Account Name Human Genome Sciences, Inc. <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17 <input type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27				3. ADDITIONAL FEES <table border="1"> <thead> <tr> <th>Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>390</td><td>216</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>890</td><td>217</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,390</td><td>218</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,890</td><td>228</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>310</td><td>219</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>310</td><td>220</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>270</td><td>221</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>Petition to revive -unavoidable</td><td></td></tr> <tr><td>141</td><td>1,240</td><td>241</td><td>Petition to revive - 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Complete (if applicable)

Submitted By Name (Print/Type) Kenley K Hoover	Registration No.: 40,302	Telephone 301-610-5771
Signature: 	Date: September 20, 2001	

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Barash et al.

Attorney Docket No.: PT086P1

Application Serial No.: Unassigned

Art Unit: Unassigned

Filed: Herewith (September 20, 2001)

Examiner: Unassigned

Title: Signal Transduction Pathway Component Polynucleotides, Polypeptides, Antibodies, and Methods Based Thereon

STATEMENT UNDER 37 C.F.R. § 1.821(f)

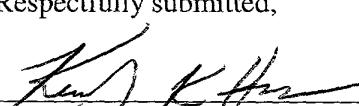
Commissioner for Patents
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. § 1.821(f), Applicants hereby certify that the sequence listing information recorded in computer readable form and submitted herewith is identical to the written (on paper or compact disc) Sequence Listing submitted herewith.

Respectfully submitted,

Dated: September 20, 2001


Kenley K. Hoover
Attorney/Agent for Applicants

Reg. No. 40,302

Human Genome Sciences, Inc.
9410 Key West Avenue
Rockville, MD 20850
Telephone: 301-610-5771

Enclosures
KKH/JS/cmp